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**RAW SEQUENCE LISTING
PATENT APPLICATION US/08/192,102**

DATE: 07/18/97
TIME: 15:50:38

INPUT SET: S19077.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/192,102DATE: 07/18/97
TIME: 15:50:43

INPUT SET: S19077.raw

47 (vii) PRIOR APPLICATION DATA:
48 (A) APPLICATION NUMBER: US 07/943,852
49 (B) FILING DATE: 11-SEP-1992
50
51 (vii) PRIOR APPLICATION DATA:
52 (A) APPLICATION NUMBER: US 07/853,606
53 (B) FILING DATE: 18-MAR-1992
54
55 (vii) PRIOR APPLICATION DATA:
56 (A) APPLICATION NUMBER: US 07/670,827
57 (B) FILING DATE: 18-MAR-1991
58
59 (viii) ATTORNEY/AGENT INFORMATION:
60 (A) NAME: Brook, David E.
61 (B) REGISTRATION NUMBER: 22,592
62 (C) REFERENCE/DOCKET NUMBER: NYU93-01M3
63
64 (ix) TELECOMMUNICATION INFORMATION:
65 (A) TELEPHONE: (617) 861-6240
66 (B) TELEFAX: (617) 861-9540
67
68
69 (2) INFORMATION FOR SEQ ID NO:1:
70
71 (i) SEQUENCE CHARACTERISTICS:
72 (A) LENGTH: 157 amino acids
73 (B) TYPE: amino acid
74 (D) TOPOLOGY: linear
75
76 (ii) MOLECULE TYPE: peptide
77
78 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
79
80 Val Arg Ser Ser Ser Arg Thr Pro Ser Asp Lys Pro Val Ala His Val
81 1 5 10 15
82
83 Val Ala Asn Pro Gln Ala Glu Gly Gln Leu Gln Trp Leu Asn Arg Arg
84 20 25 30
85
86 Ala Asn Ala Leu Leu Ala Asn Gly Val Glu Leu Arg Asp Asn Gln Leu
87 35 40 45
88
89 Val Val Pro Ser Glu Gly Leu Tyr Leu Ile Tyr Ser Gln Val Leu Phe
90 50 55 60
91
92 Lys Gly Gln Gly Cys Pro Ser Thr His Val Leu Leu Thr His Thr Ile
93 65 70 75 80
94
95 Ser Arg Ile Ala Val Ser Tyr Gln Thr Lys Val Asn Leu Leu Ser Ala
96 85 90 95
97
98 Ile Lys Ser Pro Cys Gln Arg Glu Thr Pro Glu Gly Ala Glu Ala Lys
99 100 105 110

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100
101 Pro Trp Tyr Glu Pro Ile Tyr Leu Gly Gly Val Phe Gln Leu Glu Lys
102 115 120 125
103
104 Gly Asp Arg Leu Ser Ala Glu Ile Asn Arg Pro Asp Tyr Leu Asp Phe
105 130 135 140
106
107 Ala Glu Ser Gly Gln Val Tyr Phe Gly Ile Ile Ala Leu
108 145 150 155
109
110
111 (2) INFORMATION FOR SEQ ID NO:2:
112
113 (i) SEQUENCE CHARACTERISTICS:
114 (A) LENGTH: 321 base pairs
115 (B) TYPE: nucleic acid
116 (C) STRANDEDNESS: single
117 (D) TOPOLOGY: linear
118
119
120 (ii) MOLECULE TYPE: cDNA
121
122
123
124
125 (ix) FEATURE:
126 (A) NAME/KEY: CDS
127 (B) LOCATION: 1..321
128
129
130 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
131
132 GAC ATC TTG CTG ACT CAG TCT CCA GCC ATC CTG TCT GTG AGT CCA GGA 48
133 Asp Ile Leu Leu Thr Gln Ser Pro Ala Ile Leu Ser Val Ser Pro Gly
134 1 5 10 15
135
136 GAA AGA GTC AGT TTC TCC TGC AGG GCC AGT CAG TTC GTT GGC TCA AGC 96
137 Glu Arg Val Ser Phe Ser Cys Arg Ala Ser Gln Phe Val Gly Ser Ser
138 20 25 30
139
140 ATC CAC TGG TAT CAG CAA AGA ACA AAT GGT TCT CCA AGG CTT CTC ATA 144
141 Ile His Trp Tyr Gln Gln Arg Thr Asn Gly Ser Pro Arg Leu Leu Ile
142 35 40 45
143
144 AAG TAT GCT TCT GAG TCT ATG TCT GGG ATC CCT TCC AGG TTT AGT GGC 192
145 Lys Tyr Ala Ser Glu Ser Met Ser Gly Ile Pro Ser Arg Phe Ser Gly
146 50 55 60•
147
148 AGT GGA TCA GGG ACA GAT TTT ACT CTT AGC ATC AAC ACT GTG GAG TCT 240
149 Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser Ile Asn Thr Val Glu Ser
150 65 70 75 80
151
152 GAA GAT ATT GCA GAT TAT TAC TGT CAA CAA AGT CAT AGC TGG CCA TTC 288

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153 Glu Asp Ile Ala Asp Tyr Tyr Cys Gln Gln Ser His Ser Trp Pro Phe
154 85 90 95
155
156 ACG TTC GGC TCG GGG ACA AAT TTG GAA GTA AAA 321
157 Thr Phe Gly Ser Gly Thr Asn Leu Glu Val Lys
158 100 105
159
160 (2) INFORMATION FOR SEQ ID NO:3:
161
162 (i) SEQUENCE CHARACTERISTICS:
163 (A) LENGTH: 107 amino acids
164 (B) TYPE: amino acid
165 (D) TOPOLOGY: linear
166
167 (ii) MOLECULE TYPE: protein
168
169 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
170
171 Asp Ile Leu Leu Thr Gln Ser Pro Ala Ile Leu Ser Val Ser Pro Gly
172 1 5 10 15
173
174 Glu Arg Val Ser Phe Ser Cys Arg Ala Ser Gln Phe Val Gly Ser Ser
175 20 25 30
176
177 Ile His Trp Tyr Gln Gln Arg Thr Asn Gly Ser Pro Arg Leu Leu Ile
178 35 40 45
179
180 Lys Tyr Ala Ser Glu Ser Met Ser Gly Ile Pro Ser Arg Phe Ser Gly
181 50 55 60
182
183 Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser Ile Asn Thr Val Glu Ser
184 65 70 75 80
185
186 Glu Asp Ile Ala Asp Tyr Tyr Cys Gln Gln Ser His Ser Trp Pro Phe
187 85 90 95
188
189 Thr Phe Gly Ser Gly Thr Asn Leu Glu Val Lys
190 100 105
191
192 (2) INFORMATION FOR SEQ ID NO:4:
193
194 (i) SEQUENCE CHARACTERISTICS:
195 (A) LENGTH: 357 base pairs
196 (B) TYPE: nucleic acid
197 (C) STRANDEDNESS: single
198 (D) TOPOLOGY: linear
199
200 (ii) MOLECULE TYPE: cDNA 4
201
202
203 (ix) FEATURE:
204 (A) NAME/KEY: CDS
205 (B) LOCATION: 1..357

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206
 207
 208 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
 209
 210 GAA GTG AAG CTT GAG GAG TCT GGA GGA GGC TTG GTG CAA CCT GGA GGA 48
 211 Glu Val Lys Leu Glu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 212 1 5 10 15
 213
 214 TCC ATG AAA CTC TCC TGT GTT GCC TCT GGA TTC ATT TTC AGT AAC CAC 96
 215 Ser Met Lys Leu Ser Cys Val Ala Ser Gly Phe Ile Phe Ser Asn His
 216 20 25 30
 217
 218 TGG ATG AAC TGG GTC CGC CAG TCT CCA GAG AAG GGG CTT GAG TGG GTT 144
 219 Trp Met Asn Trp Val Arg Gln Ser Pro Glu Lys Gly Leu Glu Trp Val
 220 35 40 45
 221
 222 GCT GAA ATT AGA TCA AAA TCT ATT AAT TCT GCA ACA CAT TAT GCG GAG 192
 223 Ala Glu Ile Arg Ser Lys Ser Ile Asn Ser Ala Thr His Tyr Ala Glu
 224 50 55 60
 225
 226 TCT GTG AAA GGG AGG TTC ACC ATC TCA AGA GAT GAT TCC AAA AGT GCT 240
 227 Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Ser Ala
 228 65 70 75 80
 229
 230 GTC TAC CTG CAA ATG ACC GAC TTA AGA ACT GAA GAC ACT GGC GTT TAT 288
 231 Val Tyr Leu Gln Met Thr Asp Leu Arg Thr Glu Asp Thr Gly Val Tyr
 232 85 90 95
 233
 234 TAC TGT TCC AGG AAT TAC TAC GGT AGT ACC TAC GAC TAC TGG GGC CAA 336
 235 Tyr Cys Ser Arg Asn Tyr Tyr Gly Ser Thr Tyr Asp Tyr Trp Gly Gln
 236 100 105 110
 237
 238 GGC ACC ACT CTC ACA GTC TCC 357
 239 Gly Thr Thr Leu Thr Val Ser
 240 115
 241
 242
 243 (2) INFORMATION FOR SEQ ID NO:5:
 244
 245 (i) SEQUENCE CHARACTERISTICS:
 246 (A) LENGTH: 119 amino acids
 247 (B) TYPE: amino acid
 248 (D) TOPOLOGY: linear
 249
 250 (ii) MOLECULE TYPE: protein
 251
 252 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
 253
 254 Glu Val Lys Leu Glu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly 15
 255 1 5 10 15
 256
 257 Ser Met Lys Leu Ser Cys Val Ala Ser Gly Phe Ile Phe Ser Asn His
 258 20 25 30

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SEQUENCE VERIFICATION REPORT
PATENT APPLICATION **US/08/192,102**

DATE: 07/18/97
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Original Text